Figure 1A

```
   1  CCACGCGTCCGATAATTACTAAGTACAGGGTCCCAAATTAGAATCTATTCCAACTTAAAG   60

  61  GACAAGAAAAAAAAAAGTCCAAGATTACCCAGTGAACTATGTTTGTAGTTTGTGTCACCAA  120

 121  ACTGATAGTCACGCCTAATTTCTTCTTATACTCCATAAAAGACAGTGTGTATGTATGTGT   180

 181  GTGTGTTTCTTTGTGTGTATGTATGTATTCAGGTATATGTGTATAGCCTTAGCTAGGAGA  240

 241  CAATTCTAGTTTATCTAAAGGCTTATTTGAGCCCTTTCTCACGTTCATTTATTTTATTTA  300

 301  ATAAGCATTATATATCAGGTATTATTCAAAGCTCTTTAGAAATCTTTAGACATATTAACC  360

 361  CATATAATTCTCTTCTCTATAGGGAATAGATATGATTATTATTGCTATTTTATGGATGAT  420

 421  GAAGCTTTCTAAACATGTTATAGCCAGTAAGTGTTACTATTCTCTCATTCCTATCTCTGT  480

 481  TCTATCTTGTTCCTCCAGATAATGTGATACTATGTGGAGGTTTCTGACCACAGAGAATGT  540
   1                                                    M  S          2

 541  CCAGCACTCTTGGCCACAACATGGAATCTCCTCATCACACTGATGTTGACCCTTCTGTCT  600
   3    S  T  L  G  H  N  M  E  S  P  H  H  T  D  V  D  P  S  V  F   22

 601  TCTTCCTCCTGGGCATCCCAGGTCTGGAACAATTTCATTTGTGGCTCTCACTCCCTGTGT  660
  23    F  L  L  G  I  P  G  L  E  Q  F  H  L  W  L  S  L  P  V  G   42

 661  GTGGCTTAGGCACAGCCACAATTGTGGGCAATATAACTATTCTGGTTGTTGTTGCCACTG  720
  43    G  L  G  T  A  T  I  V  G  N  I  T  I  L  V  V  V  A  T  E   62

 721  AACCAGTCTTGCACAAGCCTGTGTACCTTTTTCTGTGCATGCTCTCAACCATCGACTTGG  780
  63    P  V  L  H  K  P  V  Y  L  F  L  G  M  L  S  T  I  D  L  A   82

 781  CTGCCTCTGTCTCCACAGTTCCCAAGCTACTGGCTATCTTCTGGTGTGGAGCCGGACATA  840
  83    A  S  V  S  T  V  P  K  L  L  A  I  F  W  C  G  A  G  H  I   102

 841  TATCTGCCTCTGCCTGCCTGGCACATATGTTCTTCATTCATGCCTTCTGCATGATGGAGT  900
 103    S  A  S  A  G  L  A  H  M  F  F  I  H  A  F  C  M  M  E  S   122

 901  CCACTGTGCTACTGGCCATGGCCTTTGATCGCTACGTGGCCATCTGCCACCCACTCCGCT  960
 123    T  V  L  L  A  M  A  F  D  R  Y  V  A  I  G  H  P  L  R  Y   142

 961  ATGCCACAATCCTCACTGACACCATCATTGCCCACATAGGGGTGGCAGCTGTAGTGCGAG  1020
 143    A  T  I  L  T  D  T  I  I  A  H  I  G  V  A  A  V  V  R  G   162
```

Figure 1B

```
1021  GCTCCCTGCTCATGCTCCCATGTCCCTTCTTTATTGGGCGTTTGAACTTCTGCCAAAGCC  1080
163     S  L  L  M  L  P  C  P  F  F  I  G  R  L  N  F  C  Q  S  H   182

1081  ATGTGATCCTACACACGTACTGTGAGCACATGGCTGTGGTGAAGCTGGCCTGTGGAGACA  1140
183     V  I  L  H  T  Y  E  H  M  A  V  V  K  L  A  C  G  D  T   202

1141  CCAGGCCTAACCGTGTGTATGGGCTGACAGCTGCACTGTTGGTCATTGGGGTTGACTTGT  1200
203     R  P  N  R  V  Y  G  L  T  A  A  L  L  V  I  G  V  D  L  F   222

1201  TTTGCATTGGTCTCTCCTATGCCCTAATTGCACAAGCTGTCCTTCGCCTCTCATCCCATG  1260
223     C  I  G  L  S  Y  A  L  I  A  Q  A  V  L  R  L  S  S  H  E   242

1261  AAGCTCGGTCCAAGGCCCTAGGGACCTGTGGTTCCCATGTCTGTGTCATCCTCATCTCTT  1320
243     A  R  S  K  A  L  G  T  G  S  H  V  C  V  I  L  I  S  Y   262

1321  ATACACCAGCCCTCTTCTCCTTTTTTACACACCGCTTTGGCCATCACGTTCCAGTCCATA  1380
263     T  P  A  L  F  S  F  F  T  H  R  F  G  H  H  V  P  V  H  I   282

1381  TTCACATTCTTTTGGCCAATGTTTATCTGCTTTTGCCACCTGCTCTTAATCCTGTGGTAT  1440
283     H  I  L  L  A  N  V  Y  L  L  L  P  P  A  L  N  P  V  V  Y   302

1441  ATGGAGTTAAGACCAAACAGATCCGTAAAAGAGTTGTCAGGGTGTTTCAAAGTGGGCAGG  1500
303     G  V  K  T  K  Q  I  R  K  R  V  V  R  V  F  Q  S  G  Q  G   322

1501  GAATGGGCATCAAGGCATCTGAGTGACCCTGGAGTATAGAGGGACTTAATCCAAAAAAAA  1560
323     M  G  I  K  A  S  E                                          329

1561  AAAAAAA  1567
```

Figure 2

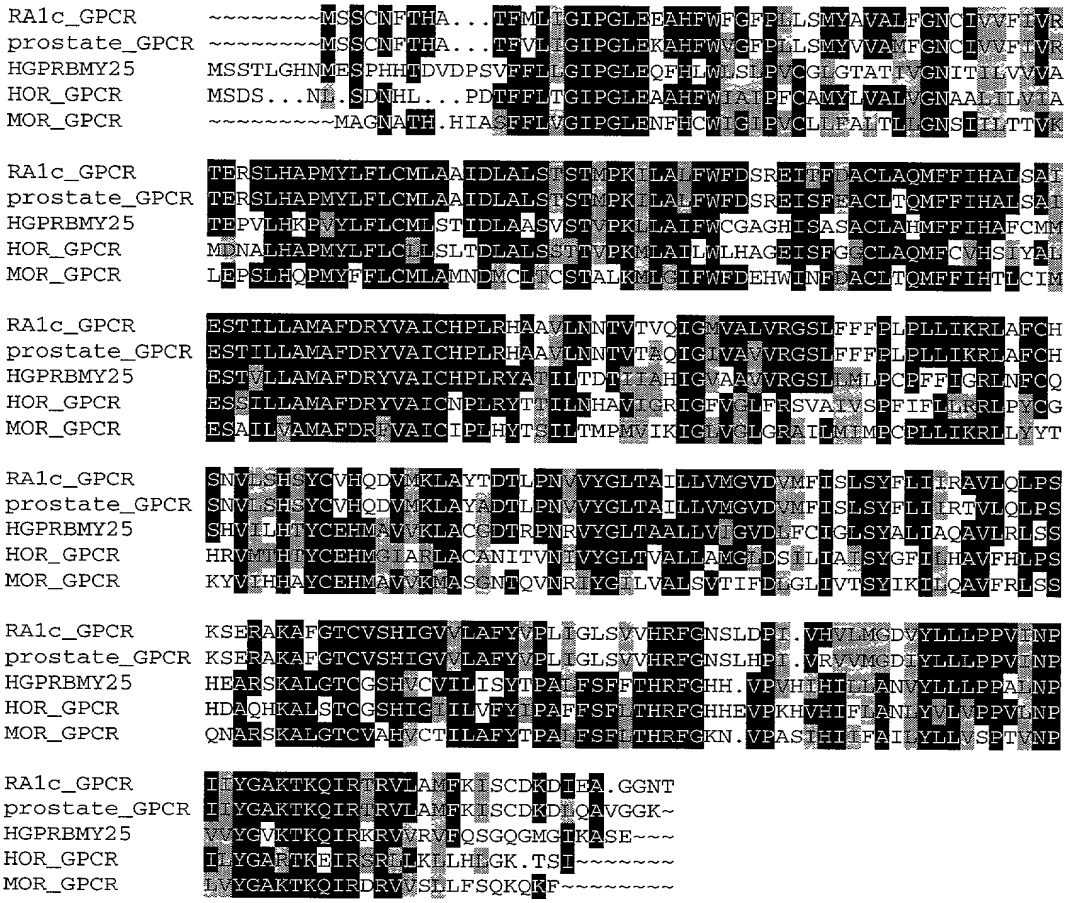
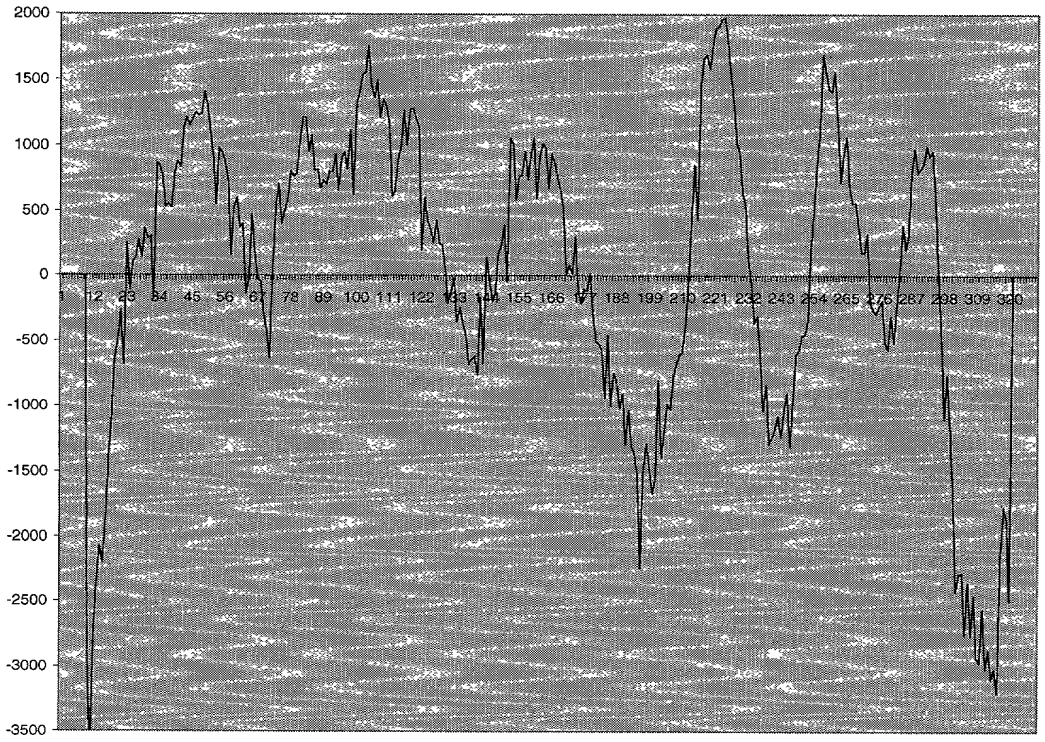


Figure 3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67
78
89
100
111
122
133
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177
188
199
210
221
232
243
254
265
276
287
298
309
320

Figure 4

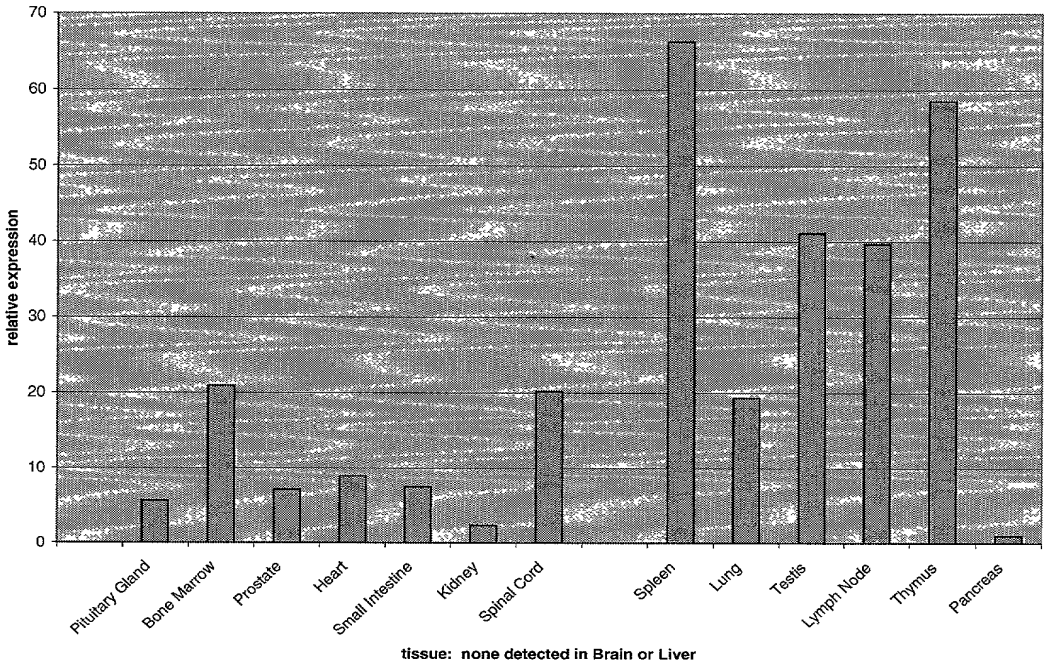
70
60
50
40
30
20
10
0
relative expression
Pituitary Gland
Bone Marrow
Prostate
Heart
Small Intestine
Kidney
Spinal Cord
Spleen
Lung
Testis
Lymph Node
Thymus
Pancreas
tissue: none detected in Brain or Liver

Figure 5.

Protein	Genbank ID	Identities	Similarities
rat G-protein coupled receptor, RA1c protein	gil3420759	52.83%	59.75%
human prostate specific G-protein coupled receptor, PSGR protein	gil11875778	51.89%	59.12%
human HOR 5'Beta14 protein	gil11908211	51.58%	60.76%
mouse MOR 3'Beta5 protein	gil11908222	54.95%	60.38%

Figure 6